

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 09/177,819  
Applicant(s) : Ying H. So, et al.  
Filed : October 23, 1998  
TC/A.U. : 1621  
Examiner : Cynthia Hamilton  
Title : ACID FUNCTIONAL POLYMERS BASED ON BENZOCYCLOBUTENE  
Docket No. : 43004A  
Customer No. : 00109  
Patent No. : 6,361,926  
Issued : March 26, 2002

EXPRESS MAIL MAILING LABEL NO. EV 331476314 US  
DATE OF DEPOSIT: March 24, 2004

**MAIL STOP REISSUE**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

Sir:

**REISSUE PETITION, DECLARATION AND POWER OF ATTORNEY**

We, Ying H. So, Robert A. DeVries, Mitchell G. Dibbs, Robert L. McGee, Edward O. Shaffer, II, Michael J. Radler, and Richard P. DeCaire, the named coinventors of U.S. Patent No. 6,361,926 ("the '926 patent"), and the applicants for reissue thereof, declare that:

1. I/We are citizens of the United States residing at 1524 Dilloway Drive, Midland, Michigan 48640, 3408 Greenbrier Terrace, Midland, Michigan 48642, 4410 Trailwood Circle South, Midland, Michigan 48642, 3606 Mary Jane Drive, Midland, Michigan 48642, 820 Honeysuckle Circle, Midland, Michigan 48642, 2712 Colony Drive, Midland, Michigan 48642, and , respectively.

2. I/We have reviewed and understand the contents of the specification, including the claims, and the preliminary amendment mailed on March 25, 2004, and believe that we are the original, first, and joint inventors of the "926"

invention described and claimed in that specification and for which a reissue patent is being sought.

3. I/We make this declaration under 37 CFR §1.175 in support of this application for reissue of the '926 patent.

4. I/We believe that the '926 patent is partially inoperative or invalid by reason of claiming more or less than we had the right to claim in the patent and/or by reason of a defective specification. Specifically, in preparation of the application that led to the '926 patent certain errors were made. These errors were not discovered until after grant of the '926 patent when a subsequent patent dealing with similar subject matter was being prepared. Such errors arose without any deceptive intention on our part. Specifically, in calculating equivalent weights an error in calculation occurred. The equivalent weight for acid functionality in the polymers which are the subject matter of this application can be calculated as follows:

Step 1: Determine molecular weight of each comonomer being used.

Step 2: Determine mole fraction at which each comonomer is present in the polymer.

Step 3: Multiply the molecular weight of each comonomer by its respective mole fraction and add the products.

Step 4: Divide by the mole fraction at which acid functional comonomers are present.

In performing the calculations of equivalent weight in preparation of this application, step 4 was inadvertently omitted leading to incorrect equivalent weights appearing at several points in the '926 patent.

5. The reissue application is broadening in that the operative range for equivalent weight when properly calculated is broader than when the calculation was performed incorrectly.

6. I/We hereby acknowledge our duty to disclose to the Patent and Trademark Office information which is material to the patentability as defined in 37 CFR §1.56.

7. I/We hereby appoint the attorneys listed under our Customer No. 00109, of The Dow Chemical Company, as our principal attorneys of record in connection with the captioned patent, with full power to prosecute this application for reissue and to transact all business in the Patent and Trademark Office in connection therewith. All correspondence should be sent to the address associated with our Customer No. referenced above.

8. I/We hereby declare that we understand the English language, and that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon or any patent to which this declaration is directed.

Date \_\_\_\_\_ Ying H. So

Date \_\_\_\_\_ Robert A. DeVries

Date \_\_\_\_\_ Mitchell G. Dibbs

Date \_\_\_\_\_ Robert L. McGee

Date \_\_\_\_\_

Edward O. Shaffer, II

Date \_\_\_\_\_

Michael J. Radler

Date \_\_\_\_\_

Richard P. DeCaire

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 09/177,819  
Applicant(s) : Ying H. So, et al.  
Filed : October 23, 1998  
TC/A.U. : 1621  
Examiner : Cynthia Hamilton  
Title : ACID FUNCTIONAL POLYMERS BASED ON BENZOCYCLOBUTENE  
Docket No. : 43004A  
Customer No. : 00109  
Patent No. : 6,361,926  
Issued : March 26, 2002

EXPRESS MAIL MAILING LABEL NO. EV 331476314 US  
DATE OF DEPOSIT: March 28, 2004  
4  
SMT 3/24/04

MAIL STOP REISSUE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

37 C.F.R. 3.73(b) Statement and Power of Attorney

Dow Global Technologies Inc., a corporation organized under the laws of the State of Delaware is the assignee of all right, title and interest in and to the United States Patent 6,361,926 by virtue of an unrecorded Transfer of Assignment from The Dow Chemical Company, a copy of which is attached, and by virtue of an assignment from the named inventors to The Dow Chemical Company which is recorded at Reel 012552/ Frame 0587. As an authorized representative of the assignee, I hereby appoint the attorney(s) and/or agent(s) at the following Customer No. 00109 to file and prosecute this reissue application and to transact all business in the Patent and Trademark Office in connection therewith. All correspondence should be sent to the address associated with our Customer No. referenced above.

Respectfully submitted,

  
Philip D. Shepherd  
President, Dow Global Technologies Inc.  
Phone: (989) 638-7168

P. O. Box 1967  
Midland, MI 48641-1967

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 09/177,819  
Applicant (s) : Ying H. So, et al.  
Filed : October 23, 1998  
TC/A.U. : 1621  
Examiner : Cynthia Hamilton  
Title : ACID FUNCTIONAL POLYMERS BASED ON BENZOCYCLOBUTENE  
Docket No. : 43004A  
Customer No. : 00109  
Patent No. : 6,361,926  
Issued : March 26, 2002

EXPRESS MAIL MAILING LABEL NO. EV 331476314 US  
DATE OF DEPOSIT: March 28, 2004  
4 SMZ 3/28/04

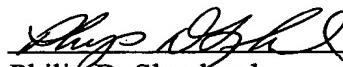
**MAIL STOP REISSUE**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

Sir:

CONSENT OF ASSIGNEE

Dow Global Technologies Inc., a corporation organized under the laws of the State of Delaware and the assignee of all right, title and interest in and to the United States Patent 6,361,926 by virtue of an unrecorded Transfer of Assignment from The Dow Chemical Company, a copy of which is attached, and by virtue of an assignment from the named inventors to The Dow Chemical Company which is recorded at Reel 012552/ Frame 0587, hereby consents to the filing of a reissue application for U.S. Patent 6,361,926.

Respectfully submitted,

  
Philip D. Shepherd  
President, Dow Global Technologies Inc.  
Phone: (989) 638-7168

P. O. Box 1967  
Midland, MI 48641-1967

This Assignment 990 is in the ENGLISH language and has the same meaning in other languages with the same 990 number.

## **ASSIGNMENT**

**(TRANSFER)**

We, ASSIGNOR:  
of: THE DOW CHEMICAL COMPANY  
2030 Dow Center  
Midland, Michigan 48674  
United States of America

a corporation organized and existing under the laws of the State of Delaware, United States of America do hereby claim and declare that we are the recorded owner of the following Patent Application(s) or Letters Patent(s) and other rights and powers obtainable or exercisable in respect thereof as numbered in UNITED STATES Patent No. 6,361,926 which was granted on March 26, 2002 and entitled: ACID FUNCTIONAL POLYMERS BASED ON BENZOCYCLOBUTENE

We do hereby, for good and valuable consideration, received, sell, assign and transfer unto:

**ASSIGNEE:** DOW GLOBAL TECHNOLOGIES INC.  
of: Washington Street  
1790 Building  
Midland, Michigan 48674  
United States of America

a corporation organized and existing under the laws of the State of Delaware, United States of America our entire right, title and interest in and to the said Patent Application(s) or Letters Patent(s), and consent to the recordal of this Assignment.

## **ASSIGNOR**

**Subscribed and Sworn by us:**

At Midland, Michigan 48674, USA

this 22 day of March 2004

THE DOW CHEMICAL COMPANY

By Michael L Glenn  
Michael L. Glenn  
Authorized Representative

CORP.  
SEAL

**ASSIGNEE**

Accepted by us:

At Midland, Michigan 48674, USA

this 23 day of March 2004

## DOW GLOBAL TECHNOLOGIES INC.

By Philip D. Shepherd  
Philip D. Shepherd  
President

CORP.  
SEAL

This Notarial Certificate 550 is in the ENGLISH language and has the same meaning in other languages with the same 550 number.

This Notarial Certificate 550 is in the ENGLISH language and has the same meaning in other languages with the same 550 number.

FORM 550

## **NOTARIAL CERTIFICATE (Corporation)**

UNITED STATES OF AMERICA )  
STATE OF Michigan ) SS  
County/Parish of Midland )

On this 22 day of March, 2024, personally appeared before me,  
**Michael L. Glenn, Authorized Representative**

known or identified to me to be the individual described in and who executed the foregoing document

## **Transfer Assignment for and on behalf of The Dow Chemical Company**

and acknowledged the same as a free act and deed for uses and purposes therein expressed by authority of the said Corporation incorporated under the laws of the **State of Delaware, United States of America**.

I further certify that said authority, dated February 13, 2003, is based on a Resolution of the Board of Directors, which I have seen, appointing the said individual Attorney-in-fact with full power to sign the foregoing document on behalf of the said corporation and that the purposes for which said document is granted are within the scope of the objects or activities of said corporation.

Ana Kritter

**SEAL**

Notary Public

*Ann Heritier*

Notary Public, Bay County, Michigan

## **Acting in Midland County**

**My Commission Expires December 03, 2006**

## **NOTARIAL CERTIFICATE (Corporation)**

UNITED STATES OF AMERICA )  
STATE OF Michigan ) SS  
County/Parish of Midland )

On this 23 day of March, 2004, personally appeared before me,  
**Philip D. Shepherd, President**

known or identified to me to be the individual described in and who executed the foregoing document.

Transfer Assignment for and on behalf of Dow Global Technologies Inc.

and acknowledged the same as a free act and deed for uses and purposes therein expressed by authority of the said Corporation incorporated under the laws of the State of Delaware, United States of America.

I further certify that said authority, dated February 11, 2002, is based on an Authorization Policy of the said Corporation, which I have seen, appointing the said individual Attorney-in-fact with full power to sign the foregoing document on behalf of the said corporation and that the purposes for which said document is granted are within the scope of the objects or activities of said corporation.

Miss Yerter

SEAL

Notary Public

*Ann Heritier*  
Notary Public, Bay County, Michigan  
Acting in Midland County  
My Commission Expires December 03, 2018